Aluminum electrolytic capacitor patent

(8) An aluminum material for electrolytic capacitor electrodes manufactured by the manufacturing method according to any one of (1) to (7). (9) The aluminum material for electrolytic capacitor electrodes as described in (8) above, which is a medium-high voltage anode material.

An anode foil, a cathode foil and a separator therebetween are rolled up into a capacitor element, and driving electrolyte is impregnated into the capacitor element. The capacitor element is housed in a metal case 12, and its opening is sealed by a sealer 13. The metal case 12 is made of an alloy of aluminum and manganese. Since this alloy has the higher hardness than that of a ...

This invention pertains to an aluminum electrolytic capacitor utilizing an electrolyte containing a phosphate salt, the cation of which is compatible with the cation of the electrolyte solute.

The present invention makes it possible to increase the thickness of a sintered body. Thus, the present invention provides a production method that is suitable for the production of anode electrode materials with high capacitance useful for medium- to high-voltage aluminum electrolytic capacitors, that does not involve an etching treatment, and that enables desired ...

A carbon coated aluminum foil as a cathode of solid aluminum electrolytic capacitors and a manufacturing method thereof are revealed. A surface of an aluminum foil is hit by ions turned into a rough surface. ... Furthermore, other patents such as Taiwanese Pub. App. No. 200423459 "aluminum coated with carbon and manufacturing method of the ...

Therefore, various anode electrode materials (foil) for aluminum electrolytic capacitors for a variety of purposes can be produced by etching aluminum foil and forming an ...

The invention relates to the field of aluminum electrolytic capacitors, in particular to an electrolyte for an aluminum electrolytic capacitor and a preparation method thereof. The supplemental additives include polyalkenoate, dihydroxydiethyl ether and, ethylene glycol, mannitol and a dehydrogenating agent. The solvent, the solute, the auxiliary additive and the modifier are as ...

Patent Document 1 Another example of a known electrolytic capacitor is one that uses an electrode foil that comprises a flat aluminum foil having a thickness of not less than 15 ?? m but less than 35 ?? m, wherein an aggregate of self-similar aluminum fine particles having a length of 2 to 0.01 ?? m and/or an aggregate of aluminum fine particles having an aluminum oxide layer ...

US10566141B2 US15/542,317 US201615542317A US10566141B2 US 10566141 B2 US10566141 B2 US 10566141B2 US 201615542317 A US201615542317 A US 201615542317A US 10566141 B2 US10566141

Aluminum electrolytic capacitor patent

B2

The invention discloses an aluminum electrolytic capacitor and a manufacturing method thereof. The manufacturing method comprises the following steps: s1, manufacturing a core bag, wherein the specific volume of the anode foil is 0.67-0.70 mu F/cm 2 The thickness is 110-125 um, the specific volume dispersion rate is less than or equal to 10 percent, and the tensile strength is ...

An aluminum plate having an aluminum purity of not less than 99.98% by mass and an Fe content of 5 to 50 ppm with the balance consisting of unavoidable impurities is used to realize increased capacitance of an aluminum electrolytic capacitor, reduced height, and improved high frequency characteristics. In this aluminum plate, the total content of Fe in crystal/precipitate is 1 to 50% ...

aluminum electrolytic capacitors need more frequent capacitor maintenance charge cycles as the capacitors are not charged while stored at room temperature in an ICD before implantation in a patient, or while housed in an ICD in the patient"s body. Without charging the capacitors during nonuse, the charge time will increase over time because of deformation, which results from the ...

The invention discloses drying equipment for producing and processing an aluminum electrolytic capacitor, wherein a middle conducting assembly is arranged in the middle of a box body, a water guide assembly is arranged at the bottom of an inner cavity of the box body, the middle conducting assembly comprises an inclined filtering plate, a leakage opening is formed in the ...

An aluminum electrolytic capacitor and a manufacturing method thereof. An oxidation potential of an anode of the aluminum electrolytic capacitor exceeds 30V and comprises dispersion...

An electrolytic capacitor is a polarized capacitor whose anode or positive plate is made of a metal that forms an insulating oxide layer through anodization.This oxide layer acts as the ...

3. The electrolytic aluminum capacitor of claim 1, wherein said elastic polymer has a crosslinkable elastic polymer material, and said sealing member is a composite material formed by crosslinking reaction of a mixed material composed of 100 parts by weight of said crosslinkable elastic polymer material, 50 to 200 parts by weight of filler, 10 to 80 parts by ...

Web: https://www.batteryhqcenturion.co.za